

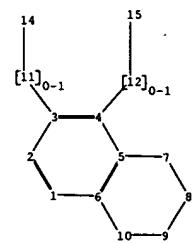
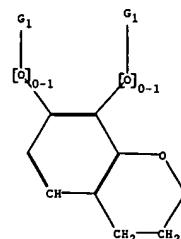
## WEST Search History

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DATE: Tuesday, August 01, 2006

<u>Hide?</u>	<u>Set Name</u>	<u>Query</u>	<u>Hit Count</u>
<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=NO; OP=ADJ</i>			
<input type="checkbox"/>	L3	(flavans or chroman) with liquid crystal\$	16

END OF SEARCH HISTORY



chain nodes :

11 12 14 15

ring nodes :

1 2 3 4 5 6 7 8 9 10

chain bonds :

3-11 4-12 11-14 12-15

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10

exact/norm bonds :

3-11 4-12 5-7 6-10 7-8 8-9 9-10 11-14 12-15

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6

G1:Cl,F,CF2,CF3

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:CLASS 12:CLASS  
14:CLASS 15:CLASS

L4 ANSWER 1 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN  
AN 2006:563904 CAPLUS  
DN 145:53425  
TI Difluorochromane derivatives having large negative dielectric anisotropy, their liquid crystal compositions, and displays therewith  
IN Matsumoto, Takashi  
PA Dainippon Ink and Chemicals, Inc., Japan  
SO Jpn. Kokai Tokkyo Koho, 12 pp.  
CODEN: JKXXAF

DT Patent  
LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2006151864	A2	20060615	JP 2004-343879	20041129
PRAI	JP 2004-343879		20041129		

L4 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN  
AN 2006:464923 CAPLUS  
DN 144:477957  
TI Nematic liquid crystal compositions with negative dielectric anisotropy and liquid crystal displays using them  
IN Sudo, Takeshi; Kawakami, Shotaro  
PA Dainippon Ink and Chemicals, Inc., Japan  
SO Jpn. Kokai Tokkyo Koho, 30 pp.  
CODEN: JKXXAF

DT Patent  
LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2006124544	A2	20060518	JP 2004-315736	20041029
PRAI	JP 2004-315736		20041029		

L4 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN  
AN 2006:343422 CAPLUS  
DN 144:379330  
TI Chroman derivatives, procedures for their production, and their use in liquid crystal media and electrooptical display devices  
IN Klein, Markus; Kirsch, Peer; Poetsch, Eike; Heckmeier, Michael; Best, Peter; Taugerbeck, Andreas; Klasen-Memmer, Melanie  
PA Merck Patent GmbH, Germany  
SO Ger. Offen., 148 pp.  
CODEN: GWXXBX

DT Patent  
LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 102005045848	A1	20060413	DE 2005-102005045848	20050926
	WO 2006040009	A2	20060420	WO 2005-EP10458	20050928
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
	RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			

PRAI DE 2004-102004048853 IA 20041007

L4 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN  
 AN 2006:123505 CAPLUS  
 DN 144:222661  
 TI Nematic liquid crystal composition for liquid crystal displays  
 IN Kawakami, Shotaro  
 PA Dainippon Ink and Chemicals, Inc., Japan  
 SO Jpn. Kokai Tokkyo Koho, 23 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 2006037053	A2	20060209	JP 2004-223492	20040730
PRAI JP 2004-223492		20040730		

L4 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN  
 AN 2006:123432 CAPLUS  
 DN 144:222660  
 TI Nematic liquid crystal composition for liquid crystal displays  
 IN Kawakami, Shotaro  
 PA Dainippon Ink and Chemicals, Inc., Japan  
 SO Jpn. Kokai Tokkyo Koho, 19 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 2006037054	A2	20060209	JP 2004-223493	20040730
PRAI JP 2004-223493		20040730		

L4 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN  
 AN 2005:1099157 CAPLUS  
 DN 143:356857  
 TI Nematic liquid crystals with negative and large dielectric anisotropy and low refractive index anisotropy, and liquid crystal displays using them  
 IN Kawakami, Shotaro  
 PA Dainippon Ink and Chemicals, Inc., Japan  
 SO Jpn. Kokai Tokkyo Koho, 21 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 2005281560	A2	20051013	JP 2004-99038	20040330
PRAI JP 2004-99038		20040330		

L4 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN  
 AN 2005:340575 CAPLUS  
 DN 142:400723  
 TI Nematic liquid crystal compositions with large negative dielectric anisotropy and small refractive index anisotropy and liquid crystal displays therewith  
 IN Kawakami, Shotaro  
 PA Dainippon Ink and Chemicals, Inc., Japan  
 SO Jpn. Kokai Tokkyo Koho, 21 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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 PI JP 2005105132 A2 20050421 JP 2003-340349 20030930  
 PRAI JP 2003-340349 20030930  
 OS MARPAT 142:400723

L4 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN  
 AN 2005:14502 CAPLUS  
 DN 142:103458  
 TI Chroman derivative and liquid-crystal composition containing the compound for liquid crystal display  
 IN Matsumoto, Takashi; Kusumoto, Tetsuo; Kawakami, Shotaro  
 PA Dainippon Ink and Chemicals, Inc., Japan  
 SO PCT Int. Appl., 72 pp.  
 CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005000995	A1	20050106	WO 2004-JP9397	20040625
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	EP 1640433	A1	20060329	EP 2004-746866	20040625
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
	JP 2005290349	A2	20051020	JP 2004-191206	20040629
	US 2006163536	A1	20060727	US 2005-562644	20051228
PRAI	JP 2003-186941	A	20030630		
	JP 2004-70573	A	20040312		
	WO 2004-JP9397	W	20040625		
OS	MARPAT 142:103458				

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN  
 AN 2004:1154385 CAPLUS  
 DN 142:103419  
 TI Chroman compound for liquid crystal display  
 IN Sugiura, Teruyo; Ushioda, Makoto  
 PA Chisso Petrochemical Corporation, Japan; Chisso Corporation  
 SO Eur. Pat. Appl., 85 pp.  
 CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1491612	A1	20041229	EP 2004-253757	20040623
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR				
	JP 2005035986	A2	20050210	JP 2004-183604	20040622
	US 2005247910	A1	20051110	US 2004-873275	20040623
PRAI	JP 2003-177671	A	20030623		
OS	MARPAT 142:103419				

RE.CNT 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN  
AN 1992:490092 CAPLUS  
DN 117:90092  
TI Synthesis and pharmacologic approach to structural analogs of tienilic acid  
AU De Saqui-Sannes, G.; Baziard-Mouysset, G.; Payard, M.; Tronche, P.; Auriac, A.; Roux, G.  
CS Dep. Chim. Pharm., Fac. Pharm., Toulouse, F-31000, Fr.  
SO Pharmaceutica Acta Helveticae (1992), 67(5-6), 172-6  
CODEN: PAHEAA; ISSN: 0031-6865  
DT Journal  
LA French